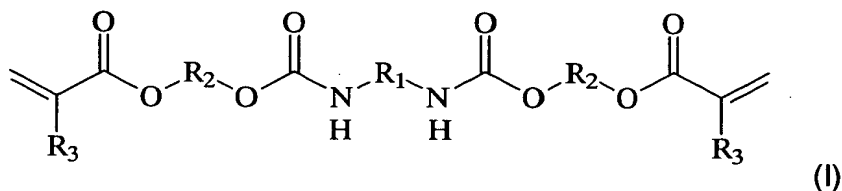


CLAIMS

1. An optical information medium comprising a supporting substrate, an information recording surface on the supporting substrate, and a light transmission layer on the information recording surface which is used by being irradiated
5 with recording light and/or reading light through the light transmission layer,

wherein the light transmission layer is a cured substance of an active energy ray-curable composition containing a urethane di(meth)acrylate compound (A) of the following general formula (I) and a urethane di(meth)acrylate compound (B) other than the compound (A), and the cured substance has a tensile elastic
10 modulus of 600 MPa or more and 1300 MPa or less at 25°C and a light transmittance of 80% or more at wavelength of 400 nm:



wherein, R₁ represents an alicyclic diisocyanate residue, R₂ represents an alkylene group or an organic group containing a cycloalkyl group or ester
15 bond, and R₃ represents a hydrogen atom or methyl group.

2. The optical information medium according to Claim 1, wherein the cured substance has a tensile yield strength of 20 MPa or more at 25°C.

3. The optical information medium according to Claim 1, wherein the urethane di(meth)acrylate compound (B) has a weight-average molecular weight of
20 1000 to 10000.

4. The optical information medium according to Claim 1, wherein the content of the urethane di(meth)acrylate compound (A) of the general formula (I) is 5 to 30 parts by weight, the content of a urethane di(meth)acrylate compound (B) other than (A) is 30 to 90 parts by weight, and the content of an ethylenically un-
25 saturated compound (C) which is not either urethane di(meth)acrylate compound

(A) or (B) is 5 to 40 parts by weight [total amount of components (A), (B) and (C) is 100 parts by weight] in the active energy ray-curable composition.

5. The optical information medium according to Claim 1, wherein the active energy ray-curable composition contains at least one

5 photo-polymerization initiator (D) selected from the group consisting of benzophenone, diethoxyacetophenone, 2-hydroxy-2-methyl-1-phenylpropane-1-one, 1-hydroxycyclohexyl-phenylketone and methyl benzoylformate.

6. The optical information medium according to Claim 1, wherein the light transmission layer has a thickness of 30 to 300 μm .

10 7. The optical information medium according to Claim 1, which is used in an optical recording and reading system wherein the wavelength λ used in the recording and/or reading and the numerical aperture NA of the objective lens for recording and reading show a relation of $\lambda/\text{NA} \leq 680$.